

IMC KALIUM BELLE PLAINE

MATERIAL SAFETY DATA SHEET

Section I. Chemical Product and Company Identification

Product Name: **K-Life**

Supplier: IMC KALIUM
2345 Waukegan Road, Suite E-209
Bannockburn, IL 60015-5516
Tel: (847) 607-3000
Toll Free: (800) 533-2754
Fax: (847) 607-3536

IMC KALIUM BELLE PLAINE
P.O. Box 7500
Regina, SK S4P 4L8
Tel: (306) 345-8400
Toll Free: (800) 867-5849
Fax: (306) 345-8222

**24-HOUR
EMERGENCY ASSISTANCE
(306) 345-8400**

Synonym(s): **Muriate of potash; Potassium Muriate**

Chemical Name: **Potassium chloride**

Chemical Family: **Neutral Salt of Alkali Metal**

Chemical Formula: **KCl**

Manufacturer: **Refer to supplier**

Material Uses: **Fertilizer; Industrial applications**

Section II. Composition and Information on Ingredients

Name	CAS#	Exposure Limits according to ACGIH			% by Weight
		TLV-TWA (mg/m3)	TLV-STEL (mg/m3)	TLV-CEIL (mg/m3)	
Potassium chloride	7447-40-7	10			98.5-99.5
Sodium chloride	7647-14-5	10			0.30-1.25

This product may contain up to 0.15 % petroleum based oil or wax (as a dedusting agent) and/or up to 0.035 % aliphatic amine (as an anticaking agent).

Section III. Hazards Identification

Potential Acute Health Effects: As shipped this product does not present special health hazards. Conditions and work practices which generate dust or fumes should be avoided or controlled. Dust from this product is considered a "nuisance" dust and may cause irritation to skin, eyes and respiratory tract.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not applicable. MUTAGENIC EFFECTS: Not applicable. TERATOGENIC EFFECTS: Not applicable. REPRODUCTION EFFECTS: Not applicable.

Section IV. First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes thoroughly with copious amounts of running water, holding eyelids open, for at least 20 minutes. If discomfort or irritation persists, seek medical attention.

Dust may cause eye irritation and stinging sensation. Acts as a foreign body.

Skin Contact: Wash exposed area thoroughly with soap or mild detergent and copious amounts of running water. If irritation persists, seek medical attention.

Prolonged contact may cause skin irritation and rashes to susceptible individuals.

Potash

Page Number 2

Inhalation: Remove from exposure area to a ventilated area. If breathing discomfort persists, seek medical attention.

Dust may cause irritation to mucous membranes, upper respiratory tract and lungs.

Ingestion: Drink Water. Do not induce vomiting or give a liquid to an unconscious person. Seek medical attention.

Acts as a common salt. Large quantities may cause irritation to the gastro-intestinal tract, with nausea, vomiting, epigastric distress, abdominal discomfort and diarrhea.

Section V. Fire and Explosion Data

The Product is: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Point: Not applicable.

Flammable Limits

(LEL, UEL): Not applicable.

Products of Combustion: Not applicable. Product may emit toxic and corrosive fumes of chloride at decomposition temperatures.

Fire Hazards in Presence

of Various Substances: Not applicable.

Explosion Hazards in

Presence of Various

Substances:

Risk of explosion of the product in presence of mechanical impact: Not applicable.

Risk of explosion the product in presence of static discharge: Not applicable.

Fire Fighting Media

and Instructions: Not applicable.

Special Remarks on

Fire Hazards: No acute hazard. Avoid breathing vapors or fumes.

Special Remarks on

Explosion Hazards: Potassium chloride: explosive reaction with: bromine trifluoride and also the combination of sulfuric acid and potassium permanganate.

Section VI. Accidental Release Measures

Spill: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Wash area with water; however, avoid contaminating surface water, waterways or sewers leading to surface water. Will damage vegetation if applied in excess.

Section VII. Handling and Storage

Precautions: DO NOT ingest. DO NOT breath dust. Avoid generating dust during handling and promote personal hygiene among workers.

Storage: Store in a dry location away from incompatible substances, strong acids and intense heat.

Section VIII. Exposure Controls/Personal Protection

Exposure Limit: TLV-TWA 10 mg/m³ from ACGIH for potassium chloride (as nuisance dust). Consult local authorities for acceptable exposure limits.

Ventilation: Provide general and local ventilation as necessary to maintain dust levels below the exposure limit.

Clothing: Wear appropriate clothing to prevent repeated or prolonged skin contact. Gloves are recommended.

Eye Protection: Use safety glasses or goggles to prevent eye contact. An eye wash station should be available for emergency use. Wearing of contact lenses is not recommended when working with the product.

Respiratory Protection: Provide respiratory protection (dust mask or dust respirator) for conditions of use where exposure to dust is apparent. For emergencies, a self-contained breathing apparatus may be necessary.

Section IX: Physical and Chemical Properties

Physical State and Appearance	Solid (Crystalline or Granulated)	Odor:	Odorless
Molecular Weight	74.85	Taste:	Strong Saline
pH (5% soln/water)	5.4 to 6.6	Color:	White
Boiling Point	1500° C (2732° F) (Sublimes)		
Melting Point	778 °C (1429 °F)		
Critical Temperature	Not available.		
Specific Gravity	1.988 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ioncity (In Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	27g of potash per 100g of water at 0°C 34.7 g of potash per 100g of water at 20°C 56.7g of potash per 100g of water at 100°C		

Section X: Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not applicable.
Conditions of Instability	No additional remarks.
Incompatibility with various substances	Avoid contact with strong inorganic acids, strong oxidizing agents and intense heat.
Corrosivity	Similar to salt. Mildly corrosive to metals in the presence of moisture.
Special Remarks on Reactivity	No additional remarks.
Special Remarks on Corrosivity	No additional remarks.

Section XI: Toxicological Information

Routes of Entry	Ingestion, Inhalation.
Toxicity to Animals	ORAL (LD50): 383 mg/kg (mouse) 2500 mg/kg (Guinea Pig) 2600 mg/kg (Rat) ORAL (LDLO): 2430 mg/kg (rat) EYE (severe): 500 mg/24 hr. (Rabbit)
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Not applicable. MUTAGENIC EFFECTS: Not applicable. TERATOGENIC EFFECTS: Not applicable. REPRODUCTION EFFECTS: Not applicable.
Other Toxic Effects on Humans	As shipped this product does not present special health hazards. Conditions and work practices which generate dust or fumes should be avoided or controlled. Dust from this product is considered a "nuisance" dust and may cause irritation to skin, eyes and respiratory tract.
Special Remarks on Toxicity to Animals	No additional remarks.

Potash**Page Number 4**

Special Remarks on
Chronic Effects on
Humans

Potassium chloride: NIOSH (90-117) does not report target organs effects for potassium chloride. Respiratory diseases may be aggravated by exposure to product dust. Passes through the placental barrier in animals.

Special Remarks on
Other Toxic Effects on
Humans

No additional remarks.

Section XII. Ecological Information

Ecotoxicity: Not applicable

BOD₅ and COD: Not applicable.

Products of Biodegradation: Not applicable.

Toxicity of the Products of Biodegradation: Not applicable.

Special Remarks on
Environment

No additional remarks.

Section XIII. Disposal Considerations

Waste Disposal

Recycle to process if possible. Dispose of waste in compliance with local or regional regulations.

Section XIV. Transport Information

TDG Classification: Not controlled under TDG (Canada).

PIN: Not applicable (PIN and PG)

Special Provisions for
Transport: Not applicable

TDG (Pictograms)

**Section XV. Other Regulatory Information and Pictograms**

Other Regulations: The product is not listed as a dangerous or hazardous material.

Other Classifications: WHMIS (CDN) Not controlled under WHMIS (Canada)

HCS (U.S.A.) Not controlled under the HCS (United States).

DSCL (EEC) Not controlled under DSCL (Europe)

Hazardous Material
Information
(U.S.A.)

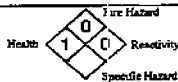
Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: 1

National Fire
Protection
Association
(U.S.A.)



WHMIS (CDN)
(Pictograms)



DOT (U.S.A.)
(Pictograms)



Protective Equipment
(Pictograms)



Section XVI. Other Information

The information in this MSDS was obtained from sources which we believe are accurate and reliable. However, this information is provided without any representation or warranty express or implied, regarding the accuracy or correctness, and we assume no liability resulting from its use. User; should make their own investigations to determine the suitability of the information for their particular purposes.

Prepared by: D. A. Zirk
Manager, Quality Assurance
IMC Kalium Canada, Ltd.
Tel: 306-345-8400

Date of Issue: April, 1997